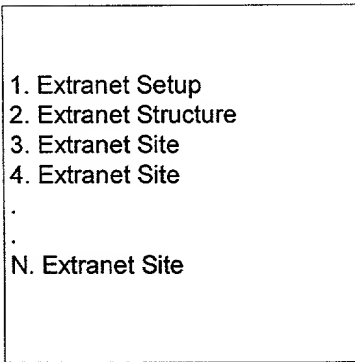


Figure 1: Overall Extranet System

132 TupleSpace Data



210 Extranet Setup TupleSpace

Contains:

- list of database templates that are available to share across extranet
- master list of all possible geographic locations

220 Extranet Structure TupleSpace

Holds information about each one of the extranet sites. Contains:

- geographic location
- unique site identifier
- server address
- databases to share

230 Extranet Site TupleSpace 132 A, B, ...

Temporary placeholder of tuples to be routed to extranet sites. Contains:

- type of action (search request/result, document request/result)
- requestor site id
- user id of requestor
- contents (XML)

Figure 2: TupleSpace data structure

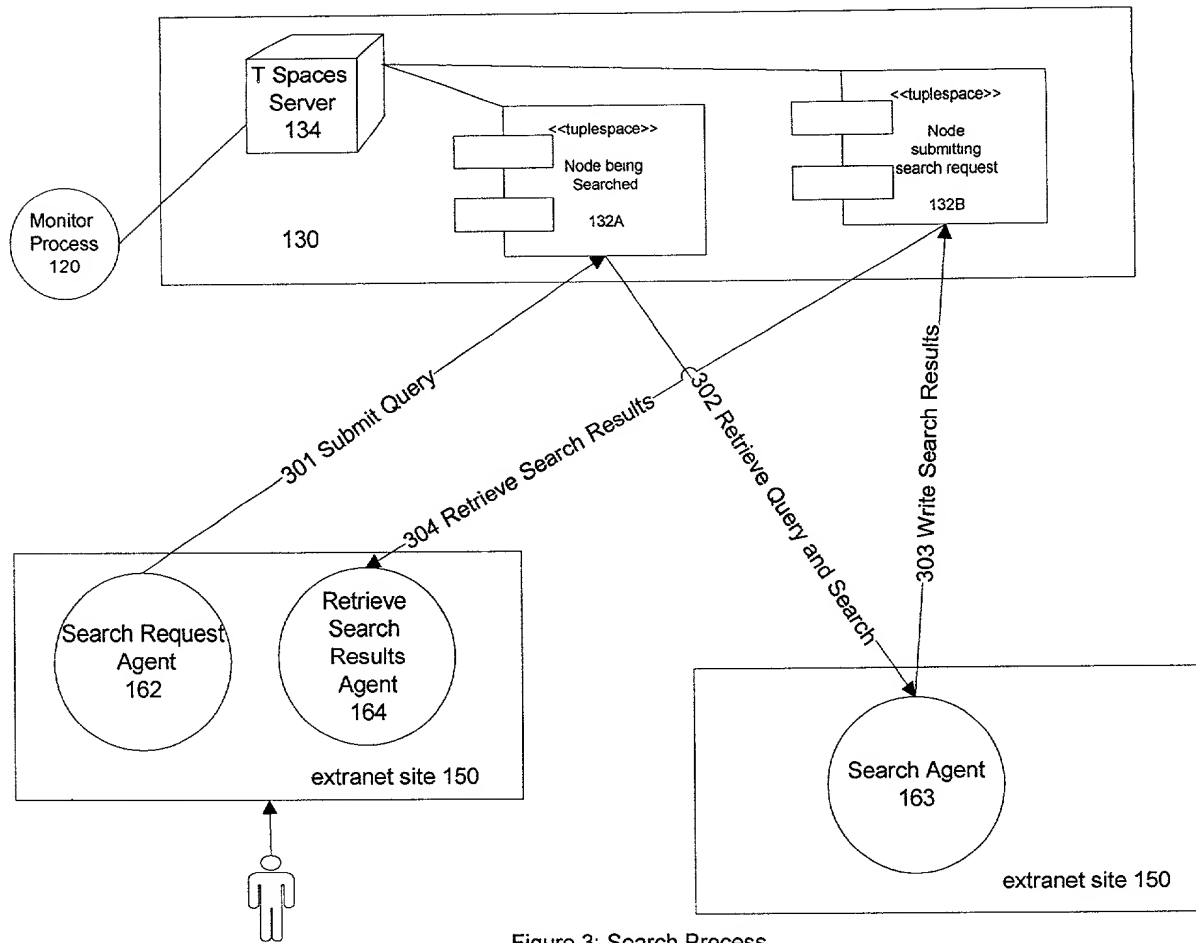


Figure 3: Search Process

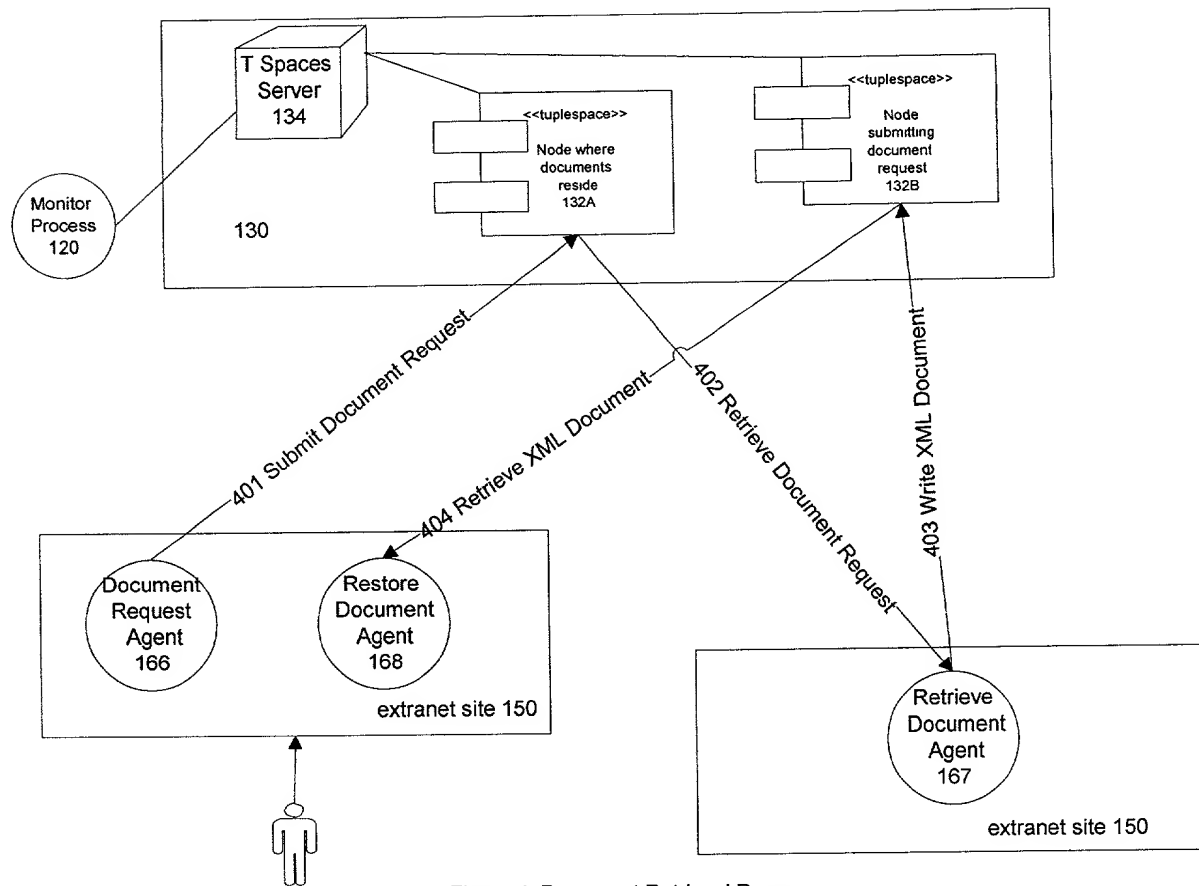


Figure 4: Document Retrieval Process

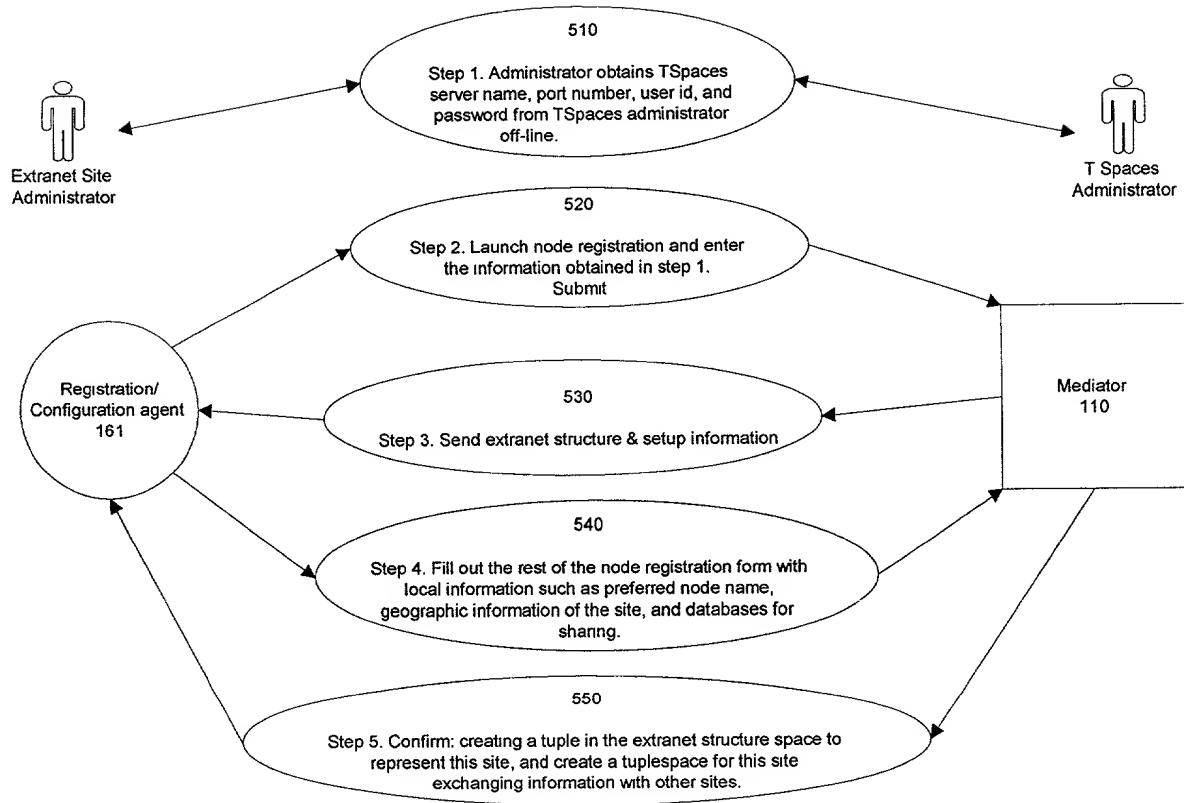


Figure 5: Site Configuration/ Registration Process

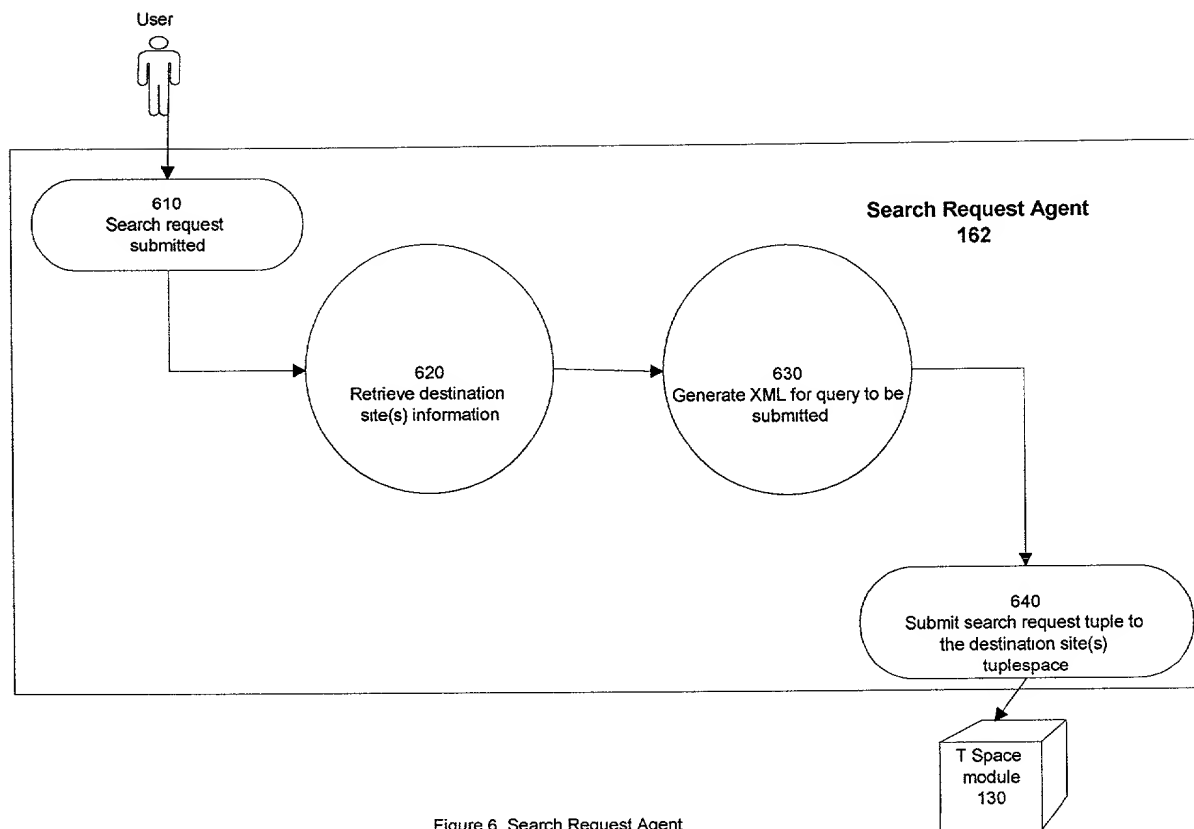


Figure 6. Search Request Agent

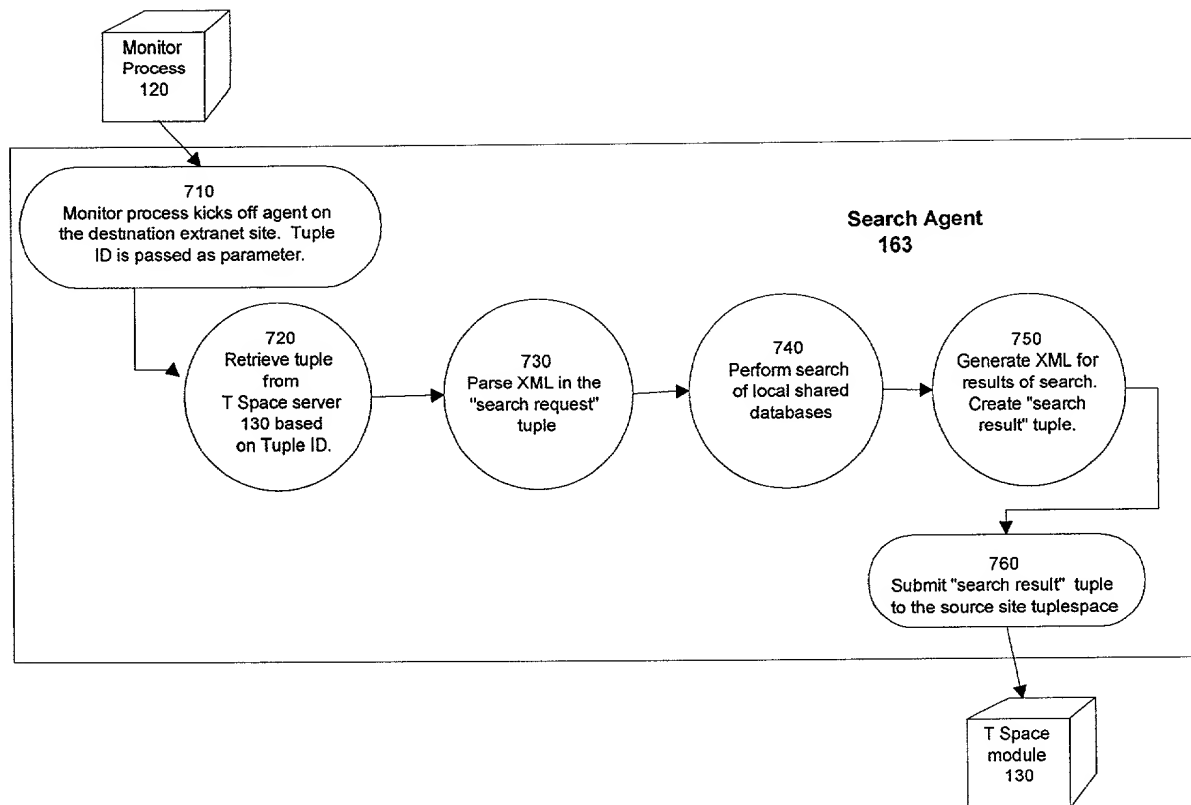


Figure 7: Search Agent

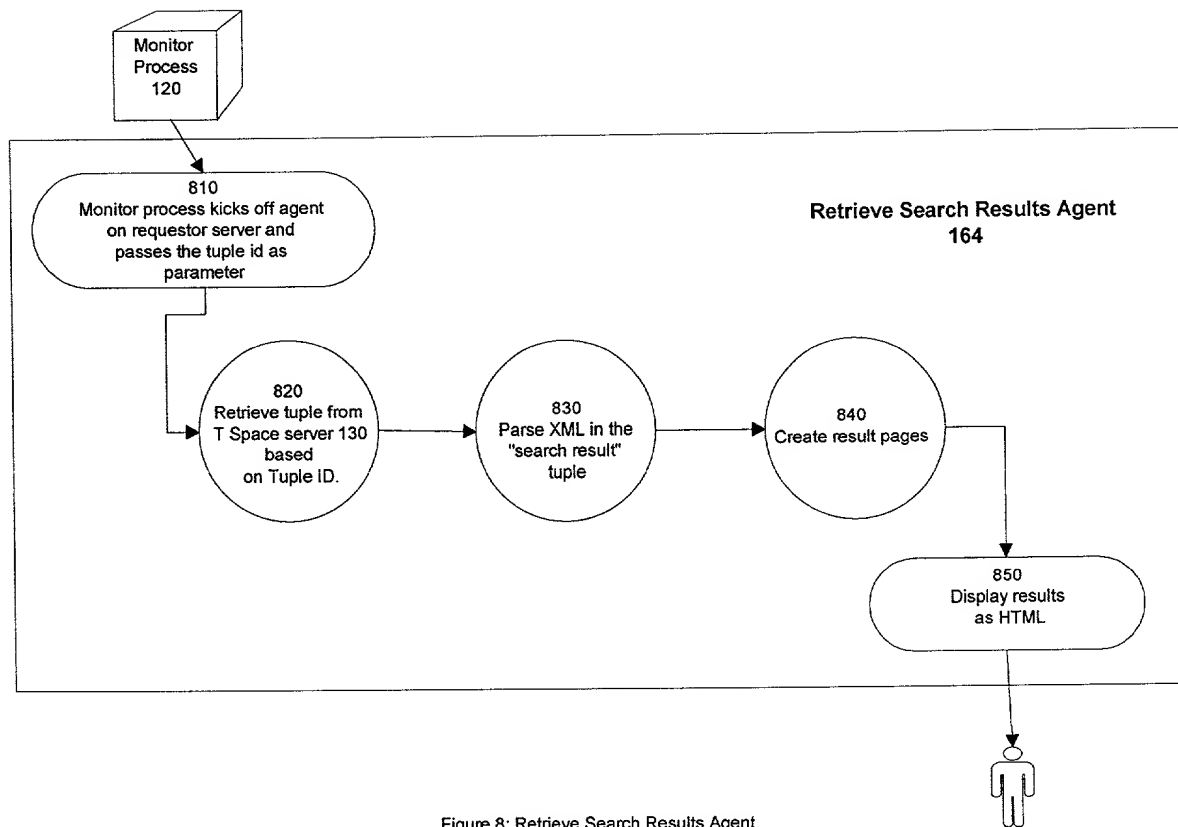


Figure 8: Retrieve Search Results Agent

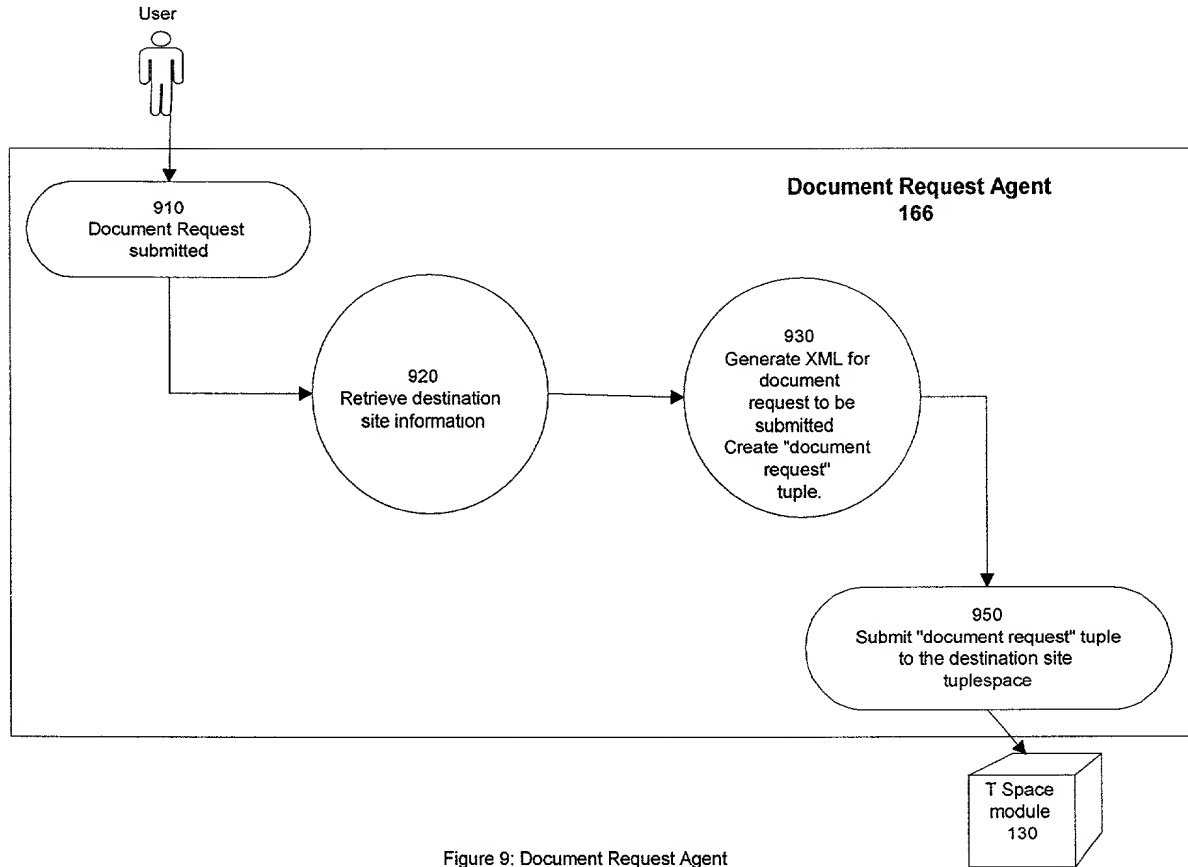


Figure 9: Document Request Agent

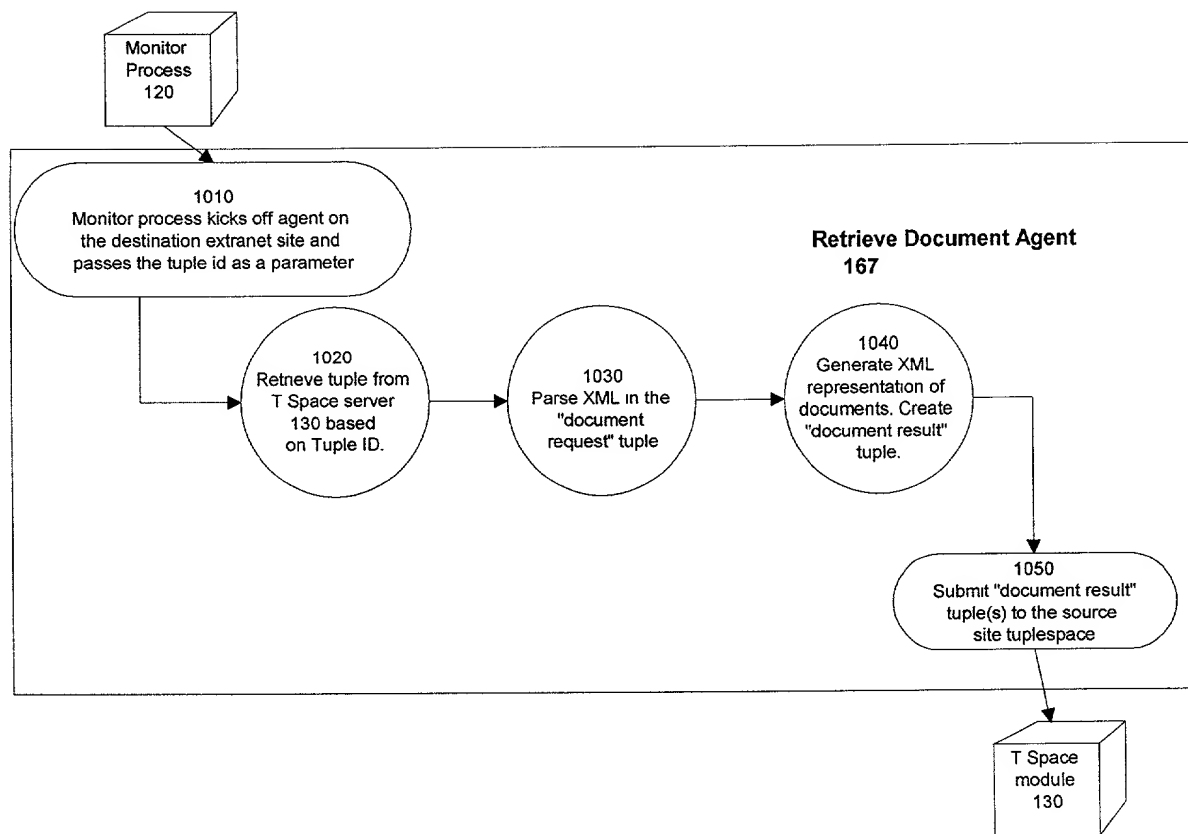


Figure 10: Retreive Document Agent

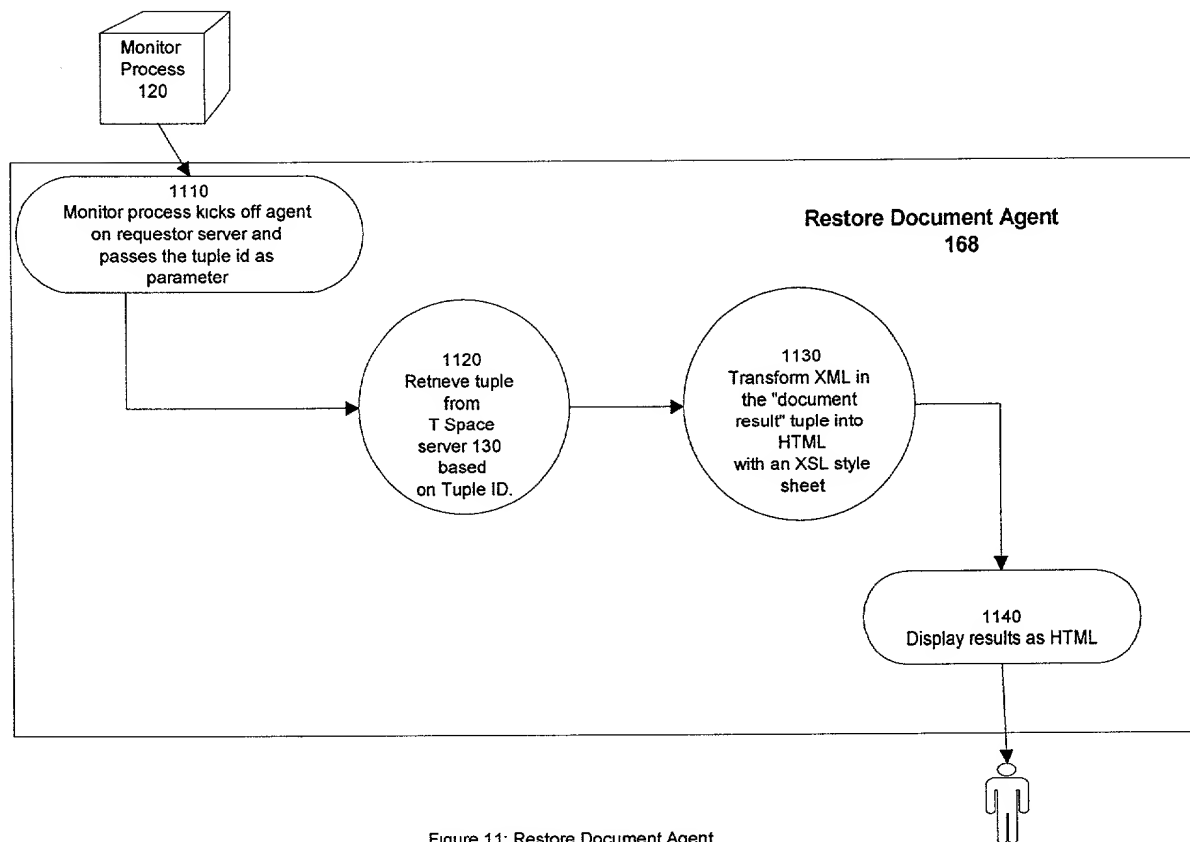


Figure 11: Restore Document Agent

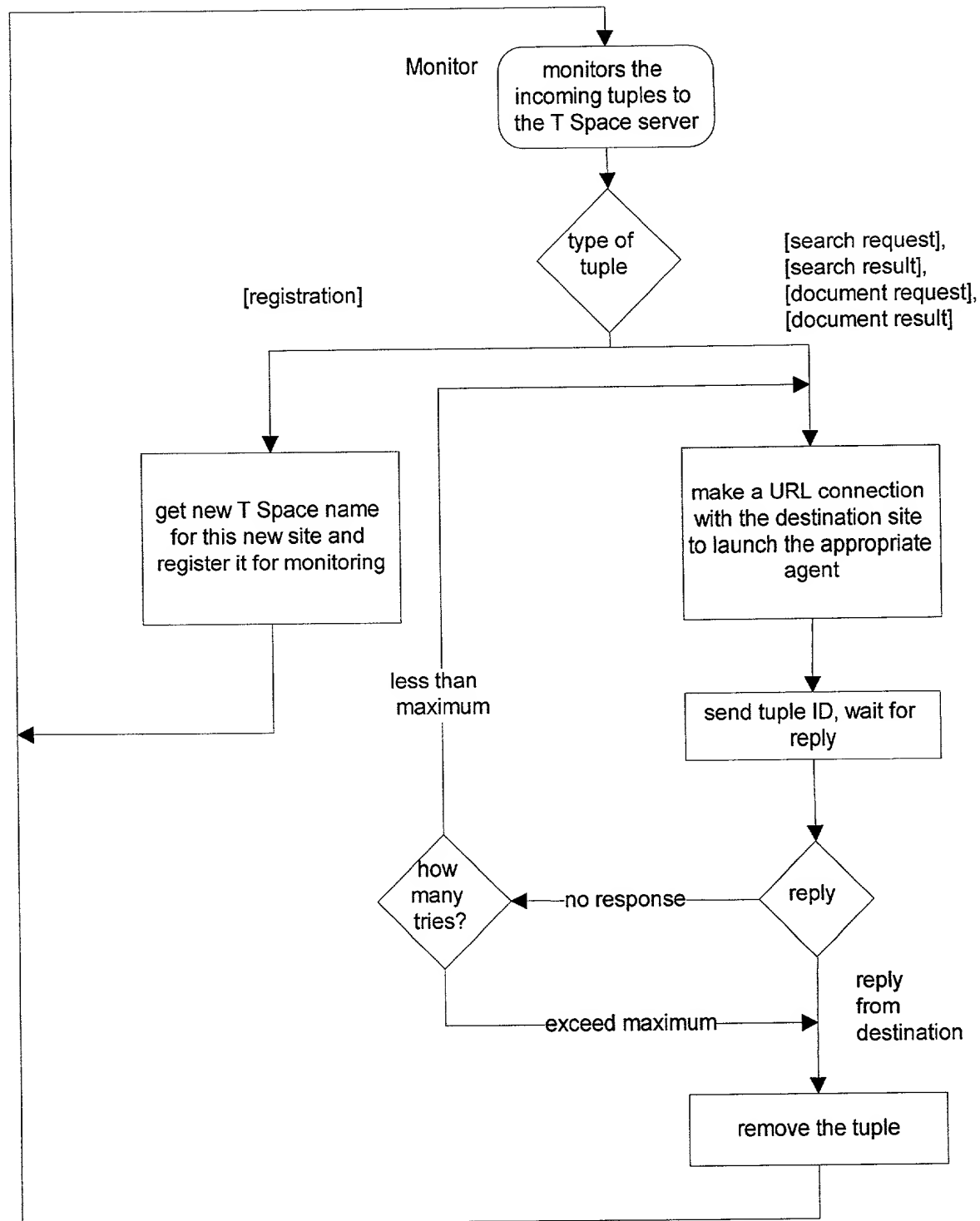


Figure 12: Extranet Monitor Process